

AMENDMENTS TO THE CLAIMS

Pursuant to 37 C.F.R. § 1.121 the following listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Original) A method for improving performance of a digital subscriber line comprising:

determining a status of a telephone hookswitch;

determining whether retraining is indicated; and

determining whether power level adjustment is indicated.

2. (Original) The method of claim 1 further comprising:

initiating a retraining routine; and

adjusting a power level.

3. (Original) The method of claim 2 wherein said step of determining whether said retraining is indicated occurs in response to said step of determining said status of said telephone hookswitch.

4. (Original) The method of claim 3 wherein said step of determining said status of said telephone hookswitch further comprises determining whether said status of said telephone hookswitch has changed.

5. (Original) The method of claim 3 further comprising the steps of:

determining whether a different modem configuration profile is appropriate; and

said first modem and said second modem resuming normal communication after said step of performing measurement of said echo testing signal.

17. (Original) A method for determining whether retraining is indicated comprising:
obtaining line quality information comprising a hookswitch status, a channel transfer function, and an echo measurement; and
determining whether said line quality information indicates retraining is needed.

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cont
18. (Original) The method of claim 17 wherein said step of obtaining line quality information further comprises obtaining an error rate, a noise margin, and a change in noise margin.

19. (Canceled)

20. (Previously Presented) A method for reducing distortion on a digital subscriber line comprising:

performing a channel loss measurement on said digital subscriber line;

determining a minimum required signal level; and

adjusting a signal level on said digital subscriber line to remain above said minimum required signal level, wherein said adjusting step occurs in response to a telephone hookswitch changing from being in an on-hook state to being in an off-hook state.

21. (Currently Amended) The method of claim ~~19~~ 20 wherein said step of adjusting said signal level occurs according to a user selection from among multiple signal level settings.

22. (Original) A method for estimating telephone hookswitch status comprising:
periodically initiating detection routines;
determining whether a change in modem performance has occurred; and
characterizing said change in modem performance as an indication of change in said
telephone hookswitch status.

23. (Original) A method for controlling a modem comprising the steps of:
detecting a hookswitch state and a presence of an inline filter; and
optimizing modem parameters based on said hookswitch state and said presence of
said inline filter.

24. (Original) The method of claim 23 further comprising the step of:
retraining said modem.

25. (Original) The method of claim 24 further comprising the step of:
initializing said modem.

26. (Original) A method for determining a need for retraining a modem comprising
the steps of:

determining a hookswitch state;
obtaining line quality information;
determining if said line quality information suggests a need for retraining;
determining if a channel response has changed; and

